



421808
SEQUENCE LISTING

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Vasmatzis, George
Wolfgang, Curt
The Government of the United States of America
as represented by the Secretary of the
Department of Health and Human Services

<120> T-Cell Receptor Gamma Alternate Reading Frame Protein,
(TARP) and Uses Thereof

<130> 4239-61854-01

<140> 10/031,158

<141> 2002-01-11

<150> PCT/US00/19039

<151> 2000-07-12

<150> US 60/157,471

<151> 1999-10-01

<150> US 60/143,560

<151> 1999-07-13

<160> 34

<170> PatentIn Ver. 2.1

<210> 1

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 1

aacttggaaag ggrgaacraa gtcagtc

27

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 2

agtactaaaa cgctgtcaaa aacagcc

27

<210> 3

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

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<400> 3
ttggacttgg attatcaaaa gtgg 24

<210> 4
<211> 24
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 4
ttggccagtt ggaacaacct gaaa 24

<210> 5
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 5
gataaaacaac ttgatgcaga tgtttccc 28

<210> 6
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 6
gggaaacatc tgcataagt tgtttattc 28

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 7
ctggagctt gtttcagcaa ttgaagg 27

<210> 8
<211> 27
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<220>
<223> Description of Artificial Sequence:PCR primer

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ctcaagaaga caaaggtatg ttccagc 27

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<210> 9
<211> 25
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<223> Description of Artificial Sequence:PCR primer

<400> 9
ttatgatttc tctccattgc agcag 25

<210> 10
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 10
gaagttacta tgagcttagt ccctt 25

<210> 11
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 11
aagcttggtt ccgggaccaa atac 24

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 12
tacctgtgac aacaagtgtt gttc 24

<210> 13
<211> 1027
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (74)..(247)
<223> Coding region for PS-TCR gamma 1 polypeptide (TARP)

<220>
<221> CDS

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<222> (247)..(579)

<223> Coding region for PS-TCR gamma 2 polypeptide (deduced amino acid sequence not displayed along with DNA sequence, due to overlapping CDS's)

<400> 13

gggcaagagt tggcaaaaaa aatcaaggta tttggtcccg gaacaaagct tatcattaca 60

gataaacaac ttg atg cag atg ttt ccc cca agc cca cta ttt ttc ttc 109
Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe
1 5 10

ctt caa ttg ctg aaa caa agc tcc aga agg ctg gaa cat acc ttt gtc 157
Leu Gln Leu Leu Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val
15 20 25

ttc ttg aga aat ttt tcc ctg atg tta tta aga tac att ggc aag aaa 205
Phe Leu Arg Asn Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys
30 35 40

aga aga gca aca cga ttc tgg gat ccc agg agg gga aca cca 247
Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
45 50 55

tgaagactaa cgacacatac atgaaattta gctggtaac ggtgccagaa aagtcaactgg 307

acaaagaaca cagatgtatc gtcagacatg agaataataa aaacggagtt gatcaagaaa 367

ttatcttcc tccaataaaag acggatgtca tcacaatgga tcccaaagac aattgttcaa 427

aagatgaaa tgatacacata ctgctgcagc tcacaaacac ctctgcatac tacatgtacc 487

tcctcctgct cctcaagagt gtggcttattt ttgccatcat cacctgctgt ctgcttagaa 547

gaacggcttt ctgctgcaat ggagagaaat cataacagac ggtggcacaa ggaggccatc 607

ttttcctcat cggttattgt ccctagaagc gtcttctgag gatctagttt ggctttttt 667

ctgggttgg gccatttcag ttctcatgtg tgtactattc tatcattatt gtataacggt 727

tttcaaacc a gtgggcacac agagaacctc actctgtaat aacaatgagg aatagccacg 787

gcgatctcca gcaccaatct ctccatgtt tccacagctc ctccagccaa cccaaatagc 847

gcctgctata gtgttagacat cctgcggctt ctgccttgt ccctcttta gtgttcttta 907

atcagataac tgcctggaag ctttcattt tacacgcctt gaagcagtct tctttcttag 967

ttgaattatg tggtgtgttt ttccgtaata agcaaataa attaaaaaaa atgaaaagtt 1027

<210> 14

<211> 58

<212> PRT

<213> Homo sapiens

<400> 14

Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe Leu Gln Leu Leu
1 5 10 15

Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val Phe Leu Arg Asn
20 25 30

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Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys Arg Arg Ala Thr
35 40 45

Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
50 55

<210> 15
<211> 111
<212> PRT
<213> Homo sapiens

<400> 15
Met Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro
1 5 10 15

Glu Lys Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn
20 25 30

Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr
35 40 45

Asp Val Ile Thr Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn
50 55 60

Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr Ser Ala Tyr Tyr Met Tyr
65 70 75 80

Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala Ile Ile Thr Cys
85 90 95

Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys Asn Gly Glu Lys Ser
100 105 110

<210> 16
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> Partial amino acid sequence of TARP (residues 42-57)

<400> 16
Gly Lys Lys Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Dictyostelium discoideum

<220>
<223> Partial amino acid sequence of Tup1 (dTup, residues 521-536)

<400> 17
Gly Ser Lys Asp Arg Ser Val Gln Phe Trp Asp Pro Arg Asn Gly Thr
1 5 10 15

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<210> 18
<211> 16
<212> PRT
<213> *Saccharomyces cerevisiae*

<220>
<223> Partial amino acid sequence of Tup1 (*yTup1*, residues 626-660)

<400> 18
Gly Ser Lys Asp Arg Gly Val Leu Phe Trp Asp Lys Lys Ser Gly Asn
1 5 10 15

<210> 19
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 19
ttacagataa acaacttgat acagatgtt cccccaagcc c 41

<210> 20
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 20
gggcttgggg gaaacatctg tatcaagttt tttatctgt 39

<210> 21
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 21
gataaacaac ttgatgcaga tatttcccc aagccc 36

<210> 22
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 22
gggcttgggg gaaatatctg catcaagttt tttatc 36

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<210> 23
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 23
gataaacaac ttgatacaga tatttcccc aagccc 36

<210> 24
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 24
gggcttgggg gaaatatctg tatcaagttg tttatc 36

<210> 25
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 25
cccaggaggg gaacaccata aagactaacg acacatac 38

<210> 26
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 26
gtatgtgtcg ttagtctta tggtgttccc ctcctggg 38

<210> 27
<211> 25
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 27
gataaacaac ttgatgcaga tgttt 25

<210> 28
<211> 25
<212> DNA

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR primer

<400> 28
ttatgatttc tctccattgc agcag 25

<210> 29

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 29
aagcttggtt ccgggaccaa atac 24

<210> 30

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR primer

<400> 30
atctggcacc acaccttcta caatgagctg cg 32

<210> 31

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR primer

<400> 31
tttcataactc ctgcttgctg atccacatct gc 32

<210> 32

<211> 4

<212> PRT

<213> Homo sapiens

<220>

<223> Protein kinase phosphorylation site

<400> 32
Arg Arg Ala Thr
1

<210> 33

<211> 4

<212> PRT

<213> Homo sapiens

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<220>

<223> Protein kinase phosphorylation site

<400> 33

Arg Arg Gly Thr
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